1. **GRANTEE:** Capella Space Corp.  
   San Francisco, CA

2. **PURPOSE AND LIMITATION:**
   
a. This special permit authorizes the transportation in commerce of low production lithium ion batteries contained in equipment (spacecraft) by motor vehicle and cargo-only aircraft. This special permit provides no relief from the Hazardous Materials Regulations (HMR) or the International Civil Aviation Organization’s Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO TI) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
   
b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
   
c. This special permit serves as an approval under Special Provision A88 of the ICAO TI and as a “Competent Authority Approval” as defined under 49 CFR § 107.1.
   
d. No party status will be granted to this special permit.

3. **REGULATORY SYSTEM AFFECTED:** 49 CFR Parts 106, 107 and 171-180.

4. **REGULATIONS FROM WHICH EXEMPTED:** 49 CFR § 173.185(a)(1) in that lithium batteries have not passed the criteria in Part III, subsection 38.3 of the UN Manual of Tests and Criteria.

5. **BASIS:** This special permit is based on the application of Capella Space Corp. dated June 15, 2023, submitted in accordance with § 107.109 and additional information dated October 2, 2023.
6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

<table>
<thead>
<tr>
<th>Hazardous Materials Description</th>
<th>Hazard Class/Division</th>
<th>Identification Number</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium ion batteries contained in equipment including lithium ion polymer batteries*</td>
<td>9</td>
<td>UN3481</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Only low production lithium ion batteries contained in equipment (spacecraft) (“Low production” is defined as a production run of no more than 100 cells or batteries annually of a particular type) may be offered for transportation and transported under the terms of this special permit.

7. **SAFETY CONTROL MEASURES:**

a. **OPERATIONAL CONTROLS:**

(1) The battery contained in equipment is comprised of the number of cells and rated at an energy rating in cell configuration as described in the September 27, 2019, application and on file with the Office of Hazardous Materials Safety.

(2) Cells and the battery contained in equipment must be protected against short-circuiting.

(3) The battery contained in equipment must be equipped with an effective means of preventing dangerous reverse current flow for cells and batteries that are connected in parallel.

b. **TESTING:**

(1) Cells must be of a type that has been successfully tested in accordance with the UN Manual of Tests and Criteria, Sixth Revised Edition.

(2) The lithium battery contained in equipment must have passed testing necessary for ensuring survival in space and during launch including thermal, vacuum and vibration testing as described in the application dated September 27, 2019.

c. **PACKAGING:**

(1) Inner Packaging: Each battery must be contained in equipment which is built with a strong, impact resistant casing and be securely mounted to equipment to prevent movement within the equipment.
(2) Outer Packaging: Inner packaging must be placed in a rigid handling case enclosed with protective panels and mounted on shock and vibration isolators and further placed in a plywood box on palette as described in the packaging information dated November 13, 2019.

(3) The net weight of batteries within each package must not exceed 4 kg (9 pounds).

(4) When transported aboard aircraft, batteries and equipment must conform to Packing Instruction 910 of the Supplement to the ICAO TI.

d. MARKING: Each package covered under the terms of this special permit must be durably and legibly marked and displayed on a background of contrasting color with “DOT-SP 20952”.

8. SPECIAL PROVISIONS:

a. Under the terms of this special permit, the grantee may only offer hazardous materials (i.e., the grantee is not authorized as a carrier).

b. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the package and it is reoffered for transportation in conformance with this special permit, the HMR, and the ICAO TI.

c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

d. This special permit in no way affects the need to obtain any required authorizations from other agencies of the United States Government or from the competent authorities of the States of origin, transit, and destination of the consignment.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle and cargo-only aircraft.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each aircraft or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.

Registration required by § 107.601 et seq., when applicable.

Each “Hazmat employee”, as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) — “The Hazardous Materials Safety and Security Reauthorization Act of 2005” (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term “exemption” to “special permit” and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:

for William Schoonover
Associate Administrator for Hazardous Materials Safety


Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at https://www.phmsa.dot.gov/approvals-and-permits/hazmat/special-permits-search. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: SH/BB

Tracking Number: 2023104089